

# PATENT ABSTRACTS OF JAPAN

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## (54) LASER RECORDING MATERIAL

### (57)Abstract:

PURPOSE: To prevent thermal fogging from occurring during preservation, facilitate washing of non-image parts at the time of development and contrive formation of sharp images, by providing a recording layer comprising a particulate thermoplastic resin and an photo-thermal converting substance as main constituents on a base.

CONSTITUTION: The thermoplastic resin used in the recording layer is an emulsion-type polymer or copolymer having a minimum film-forming temperature of 80W150°C, e.g., a polymer or copolymer of acrylic acid, styrene or vinyl acetate. The photo-thermal converting substance is a substance capable of absorbing laser light and converting it into heat, e.g., an inorganic or organic pigment such as carbon black, a phthalocyanine pigment, iron and graphite or an IR absorber such as a cyanine coloring matter and an anthraquinone compound. To produce the recording material, the thermoplastic resin is mixed with the photo-thermal converting substance and optionally with a water-soluble binder, the resultant mixture is uniformly dispersed by ultrasonic waves, an attritor or the like, the dispersed liquid is applied to a base so as to provide a dried thickness of 1W10µm, and is dried at a temperature not higher than the minimum film-forming temperature.

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